GL^{2000}

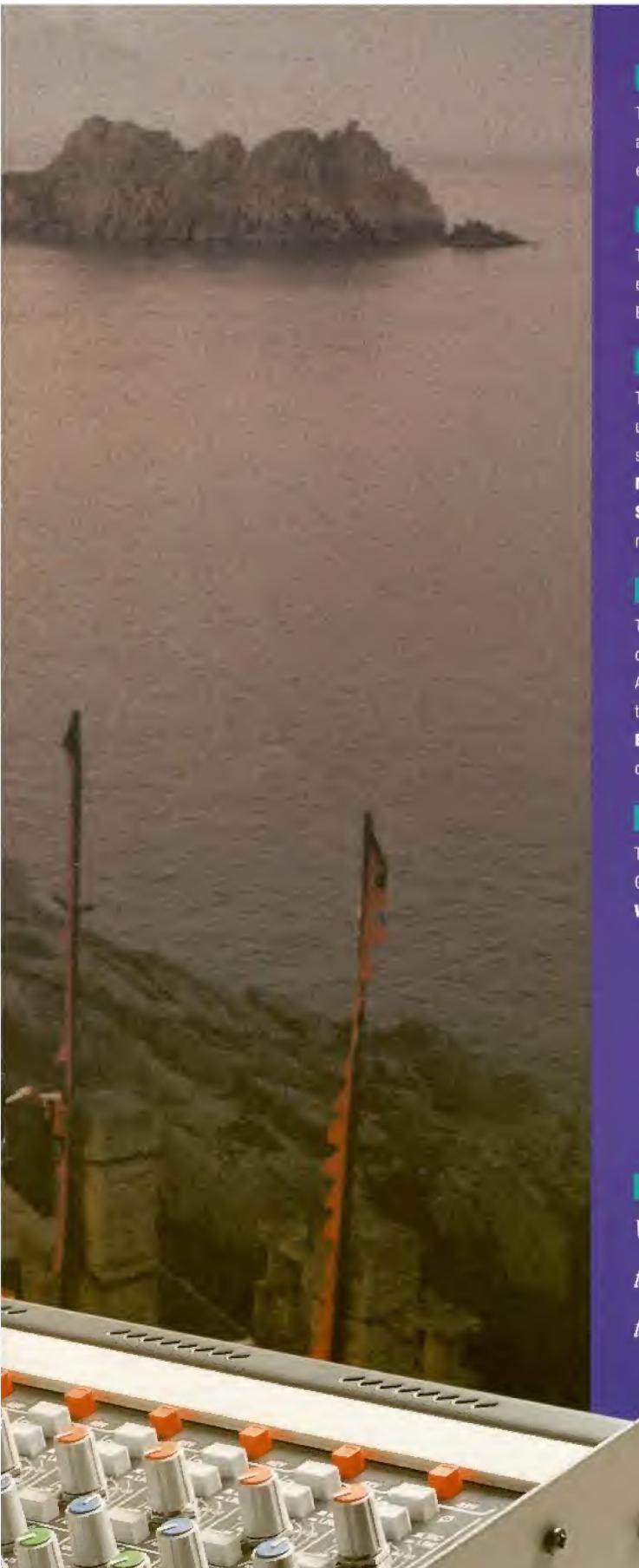
WHEN YOU'RE MIXING WITH PROFESSIONALS



ALLEN

- 4 GROUP
- DUAL FUNCTION
- LIVE CONSOLE





24 GOING ON 32

The bonus of having more inputs than expected is always an advantage. Each frame size in the GL2000 range has **EIGHT** extra inputs.

A LEADING EQ

The two swept mid bands have a wide frequency range with exactly the right Q. Its a **PROVEN**, exhaustively field tested EQ taken from our existing GL2 range.

DUAL FUNCTION

The Dual Function specification of all A&H consoles is unique. For true flexibility, using only a few front panel switches, the whole console becomes a **DEDICATED MONITOR BOARD**. Couple that with its ability to **SELECTIVELY SWITCH** only as many of these outputs as needed and the GL2000 is truly placed in a class of its own.

EXPANDABILITY

There are situations where a particular performance will demand even more inputs. Another unique design marque of A&H is the SYS-LINKTM buss interconnect system. This gives the engineer or the PA Hire company exactly the degree of EXPANDABLE FLEXIBILITY needed at a fraction of the cost of other alternatives.

HARD AS ROCK

The challenge was to make the rigid construction of the GL2000 light enough for one person to carry to any location - **WE SUCCEEDED**.

 GL^{2000}

More than enough

SOUND

We are proud of the GL2000, its

the quietest and most

transparent sounding console

we've beard. And that's from a

company that has been

making professional mixers

for over 25 years.

Mono and Stereo inputs

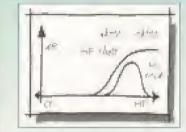
Every frame size has two fully featured Stereo inputs. These, along with the two Stereo FX Returns amount to eight additional inputs. Each stereo input includes the same wide ranging Mic pre-amp as the Mono inputs, a four band EQ and 6 Auxiliary sends.

Every input channel is designed on a single card. This improves service, reduces down time and is proven to add to the general durability and life span of the console.



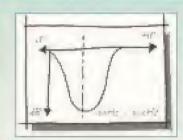
BAND	CULTURBUST	MUMO	STEESO
HF	= 1.5dU	12HHz sheri	T2HHz shee
MFI	± 1508	500002 - 158042	Z.Shitz
MF2	= 15d9	95Ha - TAHC	250Hz
LF	± 15dB	BOHz shed	SINIZ Shelf

PRESENCE



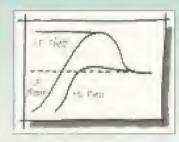
The HF control works in conjunction with the Hi Mid sweep EQ. The wide bandwidth and the specific Q setting enable presence to be added to vocal sources or sibilance removed. The silk like high end characteristics of the HF can soften up even the most iron clad cymbals.

PROXIMITY



Proximity effect is inherent in all microphones and is a naturally occurring phenomenon when close miking. To the audience the booming muddy sound is usually unpleasant. The fo Mid Q setting and frequency range can eliminate this effect without destroying the original sound.

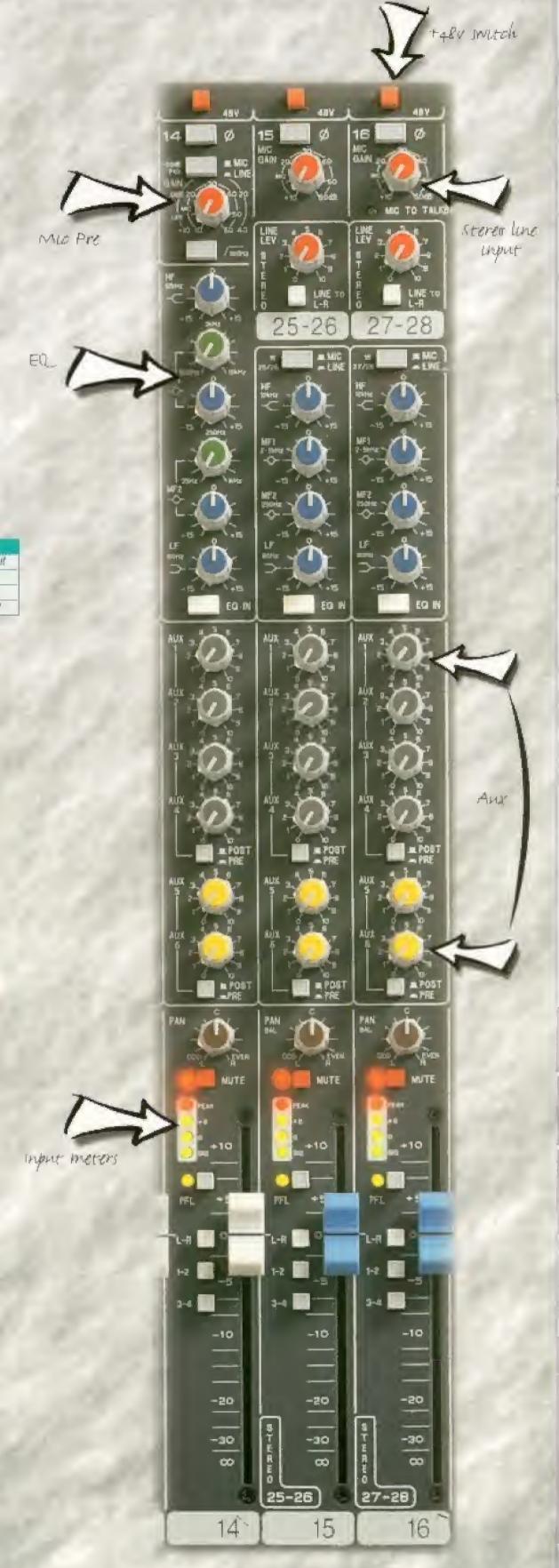
HI PASS FILTER

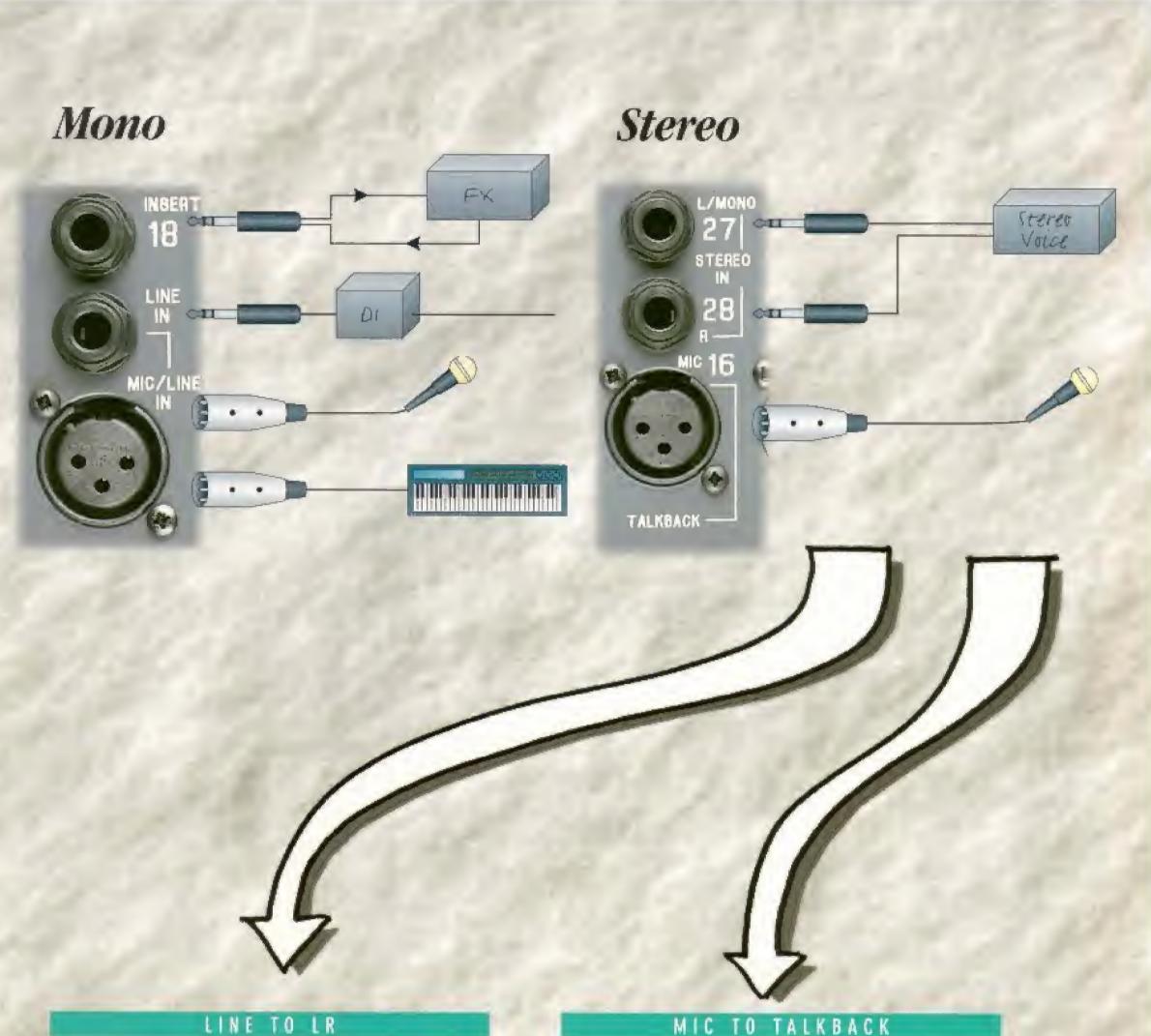


The GL2000 is designed for professionals. We consider a Hi Pass filter to be an essential component of the input stage and the EO. Without one you can't remove stage rumble and vocal popping without loosing control of the whole bottom end warmth. The LF control works in conjunction with the filter to give a bass end boost without increasing the sub bass component.

Most features like the input meters on every channel (by the faders where you really need them), the full length 100mm faders, individual channel by channel phantom power switches, one control/one function ergonomics and intelligent colour coding are apparent from just looking at the channel strips.

However, on the back page you will find the signal path diagram. Have a look at the auxiliary routing links - flexibility with options you can select to suit your application.







When using the Stereo Inputs as Mic inputs you don't loose the stereo input function. The Mic/Line switch selects the signal to be routed through the main channel path. If 'Mic' is selected then the additional 'LINE to LR' switch routes the stereo input source direct to the LR mix buss. With only the Left line input connected the signal is automatically monoed.

The Auxiliary send busses are always mono (the sum of left and right signals), however, all the link options to select a pre or post EQ source, pre or post MUTE source, pre or post FADER source and the SWITCH FUNCTION BYPASS are all available.

MIC TO TALKBACK



The right hand stereo input channel on all GL2000 frames has a DUAL ROLE as the talkback Mic input.

A comprehensive, but novel talkback system has been included. A BRIGHT GREEN LED warns you that the Mic has been enabled as the source for the talkback function. This comes on automatically when the main channel source is selected as LINE.

The Master Section

As with the Mono and Stereo Input channels all the circuits of the Master Section are built on vertically mounted circuit boards for proven reliability and ease of service. An uncluttered layout and common-sense ergonomics mean that you can mix with confidence from day one.

As with our comprehensive input section, you'll find that the number and quality of our outputs is more than enough, whatever the job. The variety of operating modes at your disposal, along with fully-balanced Group and LR outputs represent an extremely compact and versatile design.

features

DUAL FUNCTION FLEXIBILITY

The unique design function that allows one engineer to manage the main PA and a selectable number of stage monitor mixes. Sub-panel switches ensure selections have to be made deliberately and cannot be tampered with. Talkback follows the stage monitor selection in pairs.

SYS-LINK TM

SYS-LINKTM allows the GL2000 to be expanded. It is a proprietary buss interconnect system **unique** to the whole live and installation range of A&H consoles, SYS-LINKTM is covered in greater detail on pages 10 and 11 so if your needs are to be **!texible** then the GL2000 is your perfect partner.

RECORDING

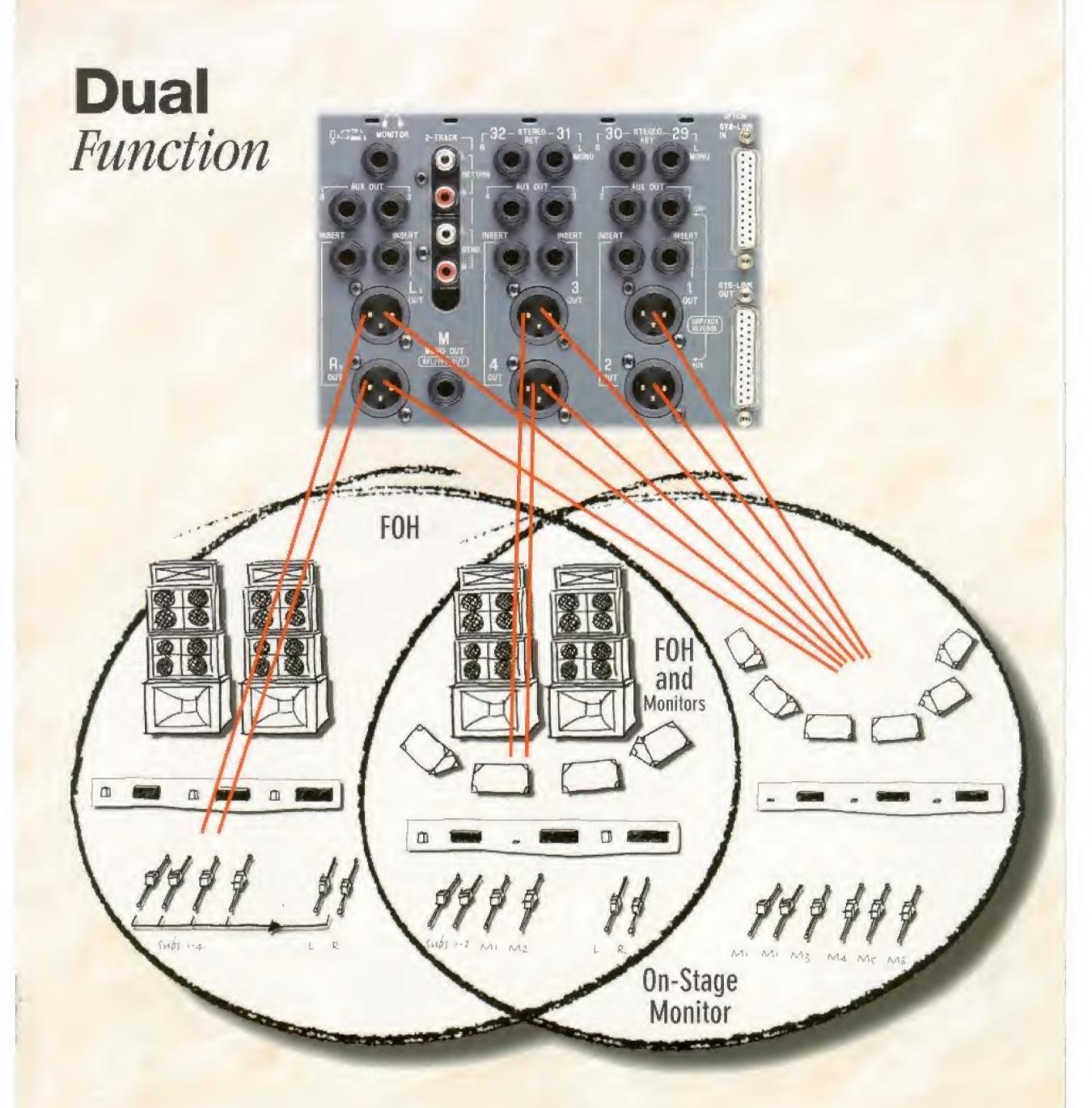
The 2 Track Send and Return facilities enable simple connection to **BAT recorders** and **CBs**. The Return can be monitored in the **engineers headphones** and directed to the main **LA mix buss**. Best used for intermission replay or simply playing the roadies favourite album during set up.

STEREO RETURNS

These inputs are ideal for FX. With **EQ**, **routing** and **fader** control these returns can be sent direct to the LR mix or subgrouped to each pair of group outputs. The subgroups have individual routing to the LR mix, inset points, AFL, and individual balance controls.

Note the quality gold XLR connectors, the insert points on all the main outputs, 6 auxiliary sends with balanced output options, the convenient internal power supply assembly that can be quickly configured for the correct mains voltage.





FRONT-OF-HOUSE

As a straight forward FOH console the GL2000 has 6 AUXILIARY send busses individually available from every channel, 4 SUBGROUPS to the main LR mix with individual pan control, ROUTING, INSERTS GROUP OUTPUT meters, AFL on all groups, LR mix busses and a MONO OUTPUT feed for centre clusters or sub bass drivers.

DUAL FUNCTION

Stage Monitor feeds can be selected in pairs, 1&2, 3&4 and L&R (Aux 5&6). The switchable function of the groups and auxiliaries really belps when each night puts a different requirement on the console. Set up is instantaneous so decisions can be left until the last minute.

ON-STAGE MONITORS

On-Stage Monitor board if needed. All six auxiliary busses are routed to the group faders and the LR faders. A professional monitor output signal path is available which includes; a 100mm fader for each mix, an INSERT point, AFL monitor, OUTPUT meters, TALKBACK and a BALANCED XLR output connector. A dedicated WEDGE MONITOR feed from the mono output connector is also available.

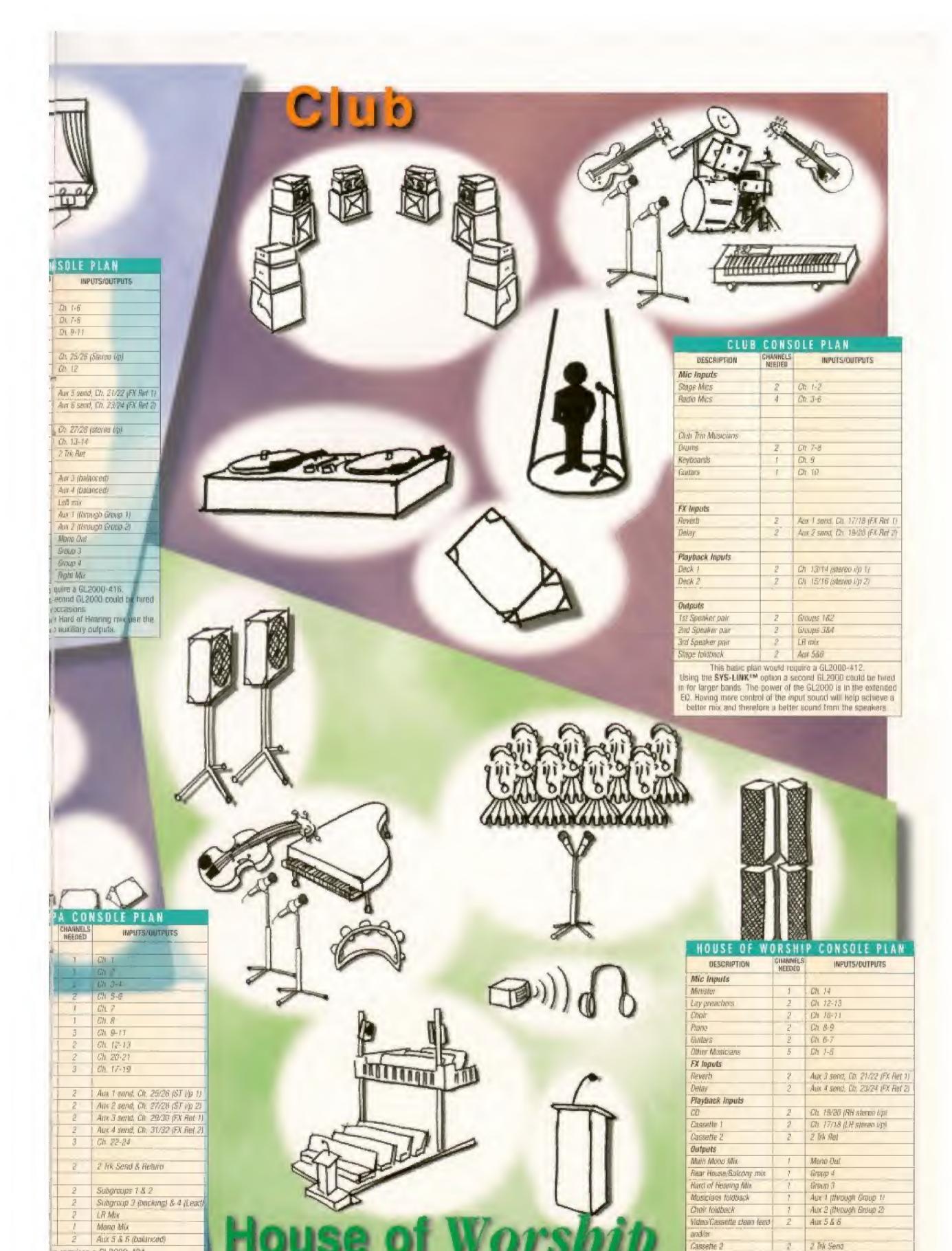
Applications

The purpose of these pages is to demonstrate the flexibility of the GL2000. The tables show how the console can be arranged to meet the many different requirements.

The GL2000 has a supreme ability to fit like a chameleon into whatever the days work demands. What is more, we hope you will be pleasantly surprised when you find out you don't have to pay inflated prices for this extra versatility.

- design experience,
- Making the best use of technology,
- With excellent design quality control,
- By engineers who have a hands-on background of sound engineering.





in requires a GL2000-424.

ally on the drain subgroup.

islay FX are allocated to the stereo input

in be mixed to the stage. The secondary

he Stereo FX Returns so it can be used

This plan requires a GL2000-416. Very good recordings of guest players and choirs can be made using the features available. The Video or Cassette feed can be balanced independently.

Cassette 2

PA Hire SYS-LINKTM

SYS-LINKTM is our proprietary buss interconnect option that allows you to join two or more consoles together electronically.

The requirement is usually to provide more inputs for the performance. The customers most likely to benefit are the PA hire companies. By the very nature of the business we understand you need day to day flexibility, low inventories and equipment out on the road earning money.

The examples on this page illustrate just how flexible the option can be.

The GL2000 can be connected up to five other GL2000s or as many other A&H consoles.

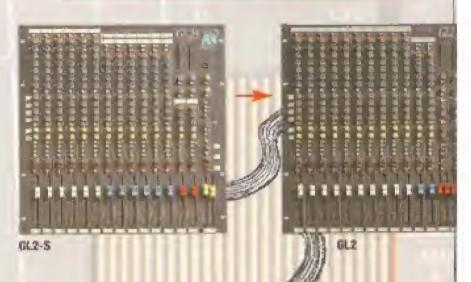
50 INPUTS TO LR MIX

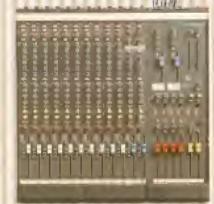


CHANS,	DESCRIPTION
34	Mic Inputs
i)	Stereo Imputs
2	Stereo Returns
4	Monn Returns
4	Groups/Subgroups
6	Auxiliary Sends



58 INPUTS TO LR MIX



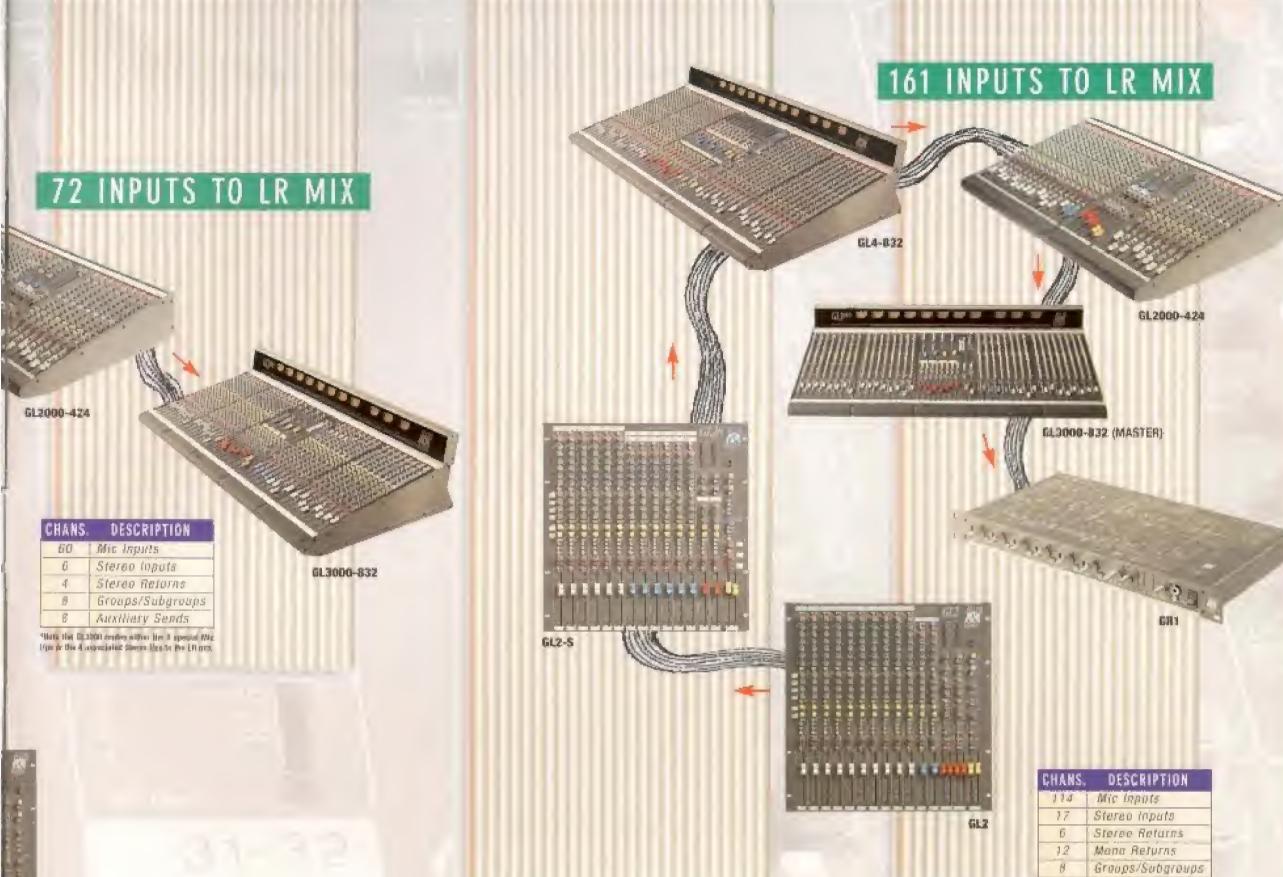


GL2000-412

A STATE OF THE STA	
CHANS.	DESCRIPTION
28	Mrc reputs
10	Stereo Inputs
4	Stereo Aeturos
4	Mono Returns
4	Graups/Subproups
5	Auxiliary Sends

CONNECTING

A console fitted with the SYS-LINKTM option can be connected to any other SYS-LINKTM console within seconds. A single multi way cable joining any two consoles in the system is all that is required. As SYS-LINKTM is an electronic standard there are no mechanical or physical constraints on what can be connected to what. The GL2000 is at home working alongside an 8 buss GL4-840ST or the 3 zone GR1 rack mixer.



27 INPUTS TO LR MIX

10 Auxiliary Sends Zones

dealgried to Utantente the Hintisty of the 373-1748 architecture The presignation of Districts front to t



DESCRIPTION Sterno Returns

"Rate the GR1 reason wither 5 Mic high or 5 misociated Memo Dyn to the curves. "Afficulty 10 mines are stated, 7 of these cours, are carboire to the GL2000 inputs.

OTHER HELPFUL OPTIONS

FLIGHTCASE We offer an optional Industrial manufactured flightcase designed specifically for the GL2000 range.



SYS-LINKT The SYS-LINKTM option is a small circuit card and wiring harness that can be easily installed by any competent technician.

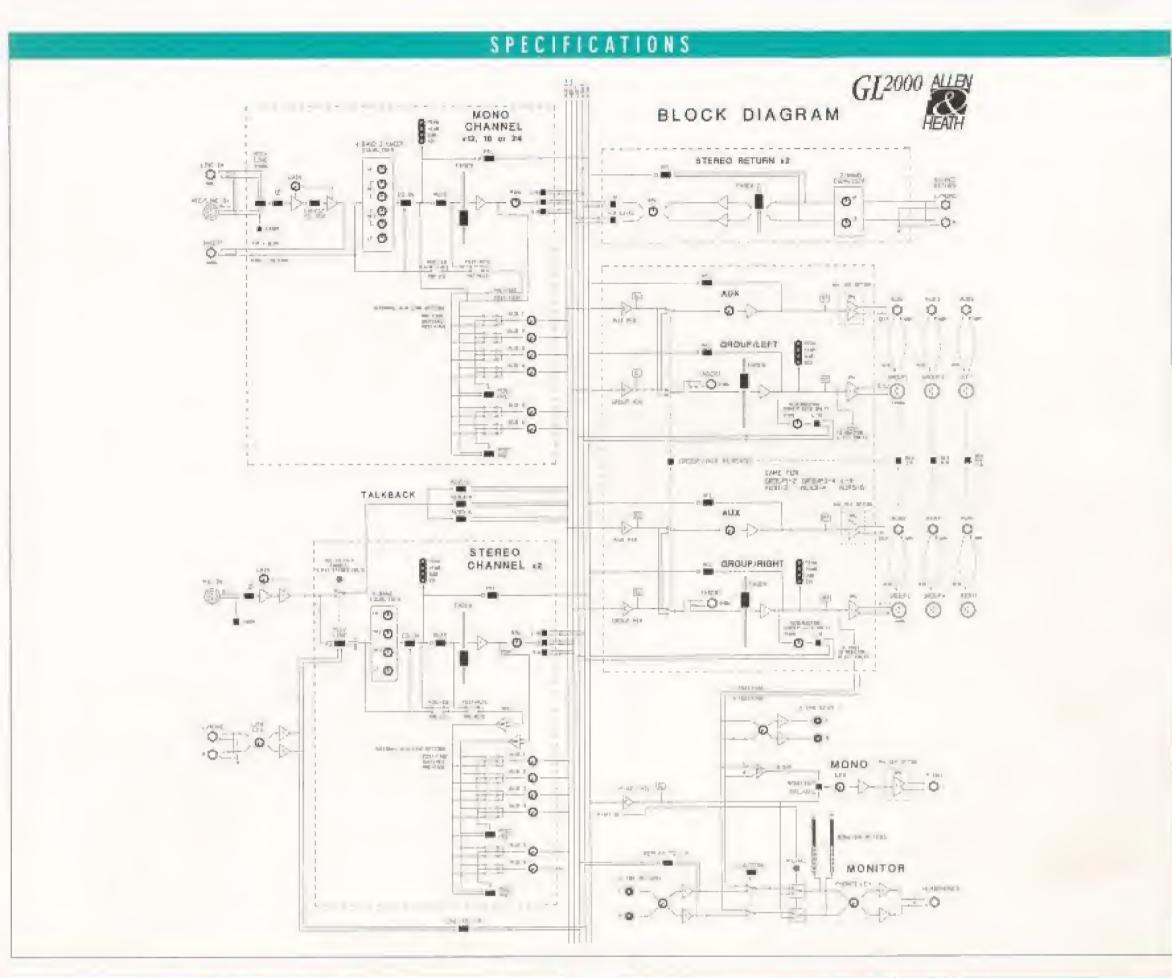


BALANCED OUTPUT OFFICE A collection of balanced output driver chips is all that is required to balance the Auxiliary Master outputs and the Mono output.



MASTER AND SLAVE

The link between the consoles can include any or all the Auxiliary busses, Group busses, LR buss, PFL, AFL and PFL/AFL logic. Not all facilities must be joined, cables can be configured to mix and match as the need arises. In a daisy chain system the last console is the master. The master console is simply determined by connecting the slave unit's SYS-LINKTM output port to the SYS-LINKTM input port of the master. Note that the outputs of all the slave consoles are still active even though the signal is also being passed on to the master console.



		CONNECTOR DET	AILS.	
Line Input	1/4" Jack	Balanced >10k ohms	Tip Hot, Ring Cald	-40a8o, +18d8pr
(Line Inpud)	Fern XLR	Balanced	Por Z Hat. Pla 3 Cold	-4008a, +10d8u
Mic Input	Fem KLR	Balanced > 2k otens	Pin 2 Hot, Pin 3 Cold	-60a9a, -15a8u
Stereo Cn. Line	1/4" Jack	Unbalanced SBK ohms	Tip Hot	-20dBo Min
Channel Justicità	1/4" Jana	Ontarianced	Top Snd, Ring Ran	Od8u, +21dBu Max
Stered Adturn	1/4" Jack	(Mbalanced	Top How	- 10dBV Min.
2 Track Return	RGA Phone	Unhalanced > 10k ohms		-1006V Mm.
2 Track Send	RC4 Phono	Úmbelaracec!		+210th Man
Aux Gulputs	1/4" Jack	Ground Compensated	Tips Hest	-200g, ±2108u Mar
	14th Jack	Salamed Options	Tip Hat, Rung Endd	+448a +27d9a Min
Group Outputs	Mare XLB	Balanced'	Pin 2 Hot. Pin 3 Cold	+4dBu +27d9i) Max
Mone Dutord 174" Jack	1/41° Jack	Ground Conjoursared	Tip Hox	-20lia +27rtBir Adax
	141" Jack	(Salitaned Option)	Tip Hall Ring Cald	4d8u. +27a8u Miri
L-A Gutavis	Marie XILA	Salanced	Pin 2 Hot. Pin 3 Cold	44dBs. 427dBa Min
Monitor Output	risk tack	Unbalanceo	Tro Lett, fling Flight	+21dSu Max
Morator Pidnes	MAIN JOSE	32 ohus to 600 ohus recommended	The Left Blvg Right	
Output inserts	1/4" Jack	Unbelanced	Typ Sma Hing Alto	-2880. +218Bu Max

Frequency Response		Holse Performance		SAU
20Hz to 59khz @ +4dBv		Measured BMS 22kh; Bandwillin		Ratio
Line in to L-B Oct. OdB gain	+0/-100	Mic EW (150 ohm source)	< -12000	
Mic. in to L-R Out, 40dR gain	+135-1418	Line Pre-amys, GdB gans	< -90000	
a through the same		1-8 Residual Noine	c -9409u	P48010
Distortion		L-A Facers "O", nothing souted	< -90aBo	8409
THD + Naise @ - I fdBu fkhz output		L-A Mix Noise 16 Ch routed	F -51450	SUMB
Afric in to E-R Out, 40:05 point	D.010%	Group, Fadors "O", nothing routed	< -91dBa	95003
Line in to L-R Out, unity gain	0.008%	Group plus netice, 16 Ch. realest	7-6409	2498
CAMBR Mic in. 40dB gain	> 751/H			
Crosstalk Refered to priven Channel (104z				
Adjacent Channel	c -94aB			
Fader Closed	c - 90 <u>-0</u> 0			
Pain Pot Indiation	< -AUB			
Mute Cio	c-90d2			

MECHANICAL DETAILS UNPACKED (PACKED) MEASUREMENTS IN MM				
	width	Depth	Height	Meight in kgribs
GL2080-412	545 (700)	572 (780)	155 (250)	16/05/2 (20/44/4)
61.2000-416	668 (815)	572 (750)	155 (280)	18/39 5 (23/50.6)
GL2000-424	920 (1065)	572 (750)	155 (280)	24/52.8 (29/63.8)



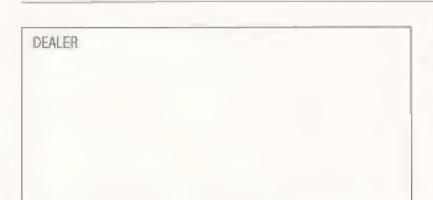




GL2000-412

GL2000-416

GL2000-424





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